

# MICHIGAN UNIFORM ENERGY CODE

## PRESCRIPTIVE COMPLIANCE APPROACH BUILDING ENVELOPE INSULATION CRITERIA

Building Component	Zone 1	Zone 2	Zone 3
R 408.31074 Walls	R13	R15	R19
R 480.31075 Fenestration/openings			
Up to and including 15% gross exterior wall area	R1.9	R1.9	R1.9
Over 15% and including 20% gross exterior wall area	R2.5	R2.5	R2.5
Over 20% gross exterior wall area	Refer to building envelope opening allowance trade-off options (R408.31083)		
R 408.31076 Roof/ceiling	R30	R38	R38
Skylights follow fenestration requirements for R values and are limited to 10% of gross roof/ceiling area			
R 408.31077 Floors over unconditioned spaces (including outdoor overhangs)	R21	R30	R30
R 408.31078 Slab-on-grade floors			
Unheated slabs	R5	R5	R5
Heated slabs	R10	R10	R10
R 408.31079 Crawl space walls	R5	R5	R5
R 408.31080 Finished lower level walls	R5	R5	R5
R 408.31081 Exposed basement walls (More than 7% of the gross exterior wall area)	R5	R5	R5

**TABLE N1102.1**  
**SIMPLIFIED PRESCRIPTIVE BUILDING ENVELOPE THERMAL**  
**COMPONENT CRITERIA MINIMUM REQUIRED THERMAL**  
**PERFORMANCE (*U*-FACTOR AND *R*-VALUE)**

Exterior Enclosure		Zones		
		1	2	3
Wall Assemblies		R-21	R-21	R-21
Fenestration/Openings (area weighted average of the total area of fenestration units) <sup>1</sup>		U =0.35 (R= 2.85)		
Roof/Ceiling Assemblies <sup>2</sup>		R-49	R-49	R-49
Floors over unconditioned spaces		R –21	R-21	R-21
Slab on grade construction <sup>3</sup>		R-11	R-13	R-18
Crawl space walls <sup>4</sup>		R-20	R-20	R-20
Basement walls	Continuous Insulation	R-10	R-10	R-15
	Cavity Insulation	R-11	R-11	R-19

<sup>1</sup> Fenestration units are required to meet this standard for the entire unit.

<sup>2</sup> Skylight U (1/R) factors are required to meet the fenestration requirements set forth in this table for fenestration/openings. Skylights are limited to 10% of the gross roof/ceiling area.

<sup>3</sup> See section N1102.1.6 for additional installation criteria.

<sup>4</sup> See section N1102.1.7 for additional installation criteria.